

O I P E

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/899,645

DATE: 07/24/2001

TIME: 10:45:47

Input Set : A:\5718-114.app

Output Set: N:\CRF3\07242001\I899645.raw

ENTERED

3 <110> APPLICANT: Li, Chun Ping  
4 Zheng, Peizhong  
5 Nichols, Scott  
7 <120> TITLE OF INVENTION: METHODS FOR REGULATING BETA-OXIDATION IN PLANTS  
9 <130> FILE REFERENCE: 35718/235742  
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/899,645  
C--> 12 <141> CURRENT FILING DATE: 2001-07-05  
14 <150> PRIOR APPLICATION NUMBER: 60/216,211  
15 <151> PRIOR FILING DATE: 2000-07-06  
17 <160> NUMBER OF SEQ ID NOS: 2  
19 <170> SOFTWARE: PatentIn Ver. 2.1  
21 <210> SEQ ID NO: 1  
22 <211> LENGTH: 1169  
23 <212> TYPE: DNA  
24 <213> ORGANISM: Zea mays  
26 <220> FEATURE:  
27 <221> NAME/KEY: CDS  
28 <222> LOCATION: (89)..(814)  
30 <400> SEQUENCE: 1  
31 gagctccacc gcgggtggcg cgctctaga actagtggat ccccccggct gcaggaattc 60  
33 ggcacgagag actgttgatt gtctaaaa atg gtg cat agt ttg cat gca att 112  
34 Met Val His Ser Leu His Ala Ile  
35 1 5  
37 ttt ctt gtt gct gga gac aat aac ata ccg ata ata tat caa gtt cat 160  
38 Phe Leu Val Ala Gly Asp Asn Asn Ile Pro Ile Ile Tyr Gln Val His  
39 10 15 20  
41 cgg gca cgt gat gga tcc agc ttt gcc aca aga aaa gtg gag gca aag 208  
42 Arg Ala Arg Asp Gly Ser Ser Phe Ala Thr Arg Lys Val Glu Ala Lys  
43 25 30 35 40  
45 cag aag ggc cta gtt gta ttc acc ttg att gct tct ttc cag aag gaa 256  
46 Gln Lys Gly Leu Val Val Phe Thr Leu Ile Ala Ser Phe Gln Lys Glu  
47 45 50 55  
49 gaa gtg ggt ttt gag cat cag gct gca atc atg cct gat gtt cct ccg 304  
50 Glu Val Gly Phe Glu His Gln Ala Ala Ile Met Pro Asp Val Pro Pro  
51 60 65 70  
53 cca gaa cag ctc ctt aat ctg gag gag ata cgt gaa aga cgg ctt act 352  
54 Pro Glu Gln Leu Leu Asn Leu Glu Glu Ile Arg Glu Arg Arg Leu Thr  
55 75 80 85  
57 gat cca cgc ttc cca tcc caa tat agg aac ttg gca gct aaa aaa aag 400  
58 Asp Pro Arg Phe Pro Ser Gln Tyr Arg Asn Leu Ala Ala Lys Lys Lys  
59 90 95 100  
61 ttt att cct tgg ccc ata gaa atg aga ttt tgt gaa ggt tca gcg tct 448  
62 Phe Ile Pro Trp Pro Ile Glu Met Arg Phe Cys Glu Gly Ser Ala Ser  
63 105 110 115 120  
65 caa cat aaa cca agc tta aac tac tgg ttt aga gct cga ggg aaa ctc 496  
66 Gln His Lys Pro Ser Leu Asn Tyr Trp Phe Arg Ala Arg Gly Lys Leu  
67 125 130 135

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/899,645

DATE: 07/24/2001  
TIME: 10:45:47

Input Set : A:\5718-114.app  
Output Set: N:\CRF3\07242001\I899645.raw

69	tca	gac	gac	caa	gct	cta	cac	aga	tgt	gtt	gta	gca	tat	gct	tcg	gat	544
70	Ser	Asp	Asp	Gln	Ala	Leu	His	Arg	Cys	Val	Val	Ala	Tyr	Ala	Ser	Asp	
71				140				145						150			
73	cta	cta	ttt	tct	ggg	gtg	agc	ctt	aac	cct	cat	cgg	gag	aag	ggt	ttg	592
74	Leu	Leu	Phe	Ser	Gly	Val	Ser	Leu	Asn	Pro	His	Arg	Glu	Lys	Gly	Leu	
75				155				160						165			
77	aag	aca	tac	tgc	ctc	agt	ctt	gac	cat	tcc	atc	tgg	ttc	cac	aaa	cct	640
78	Lys	Thr	Tyr	Cys	Leu	Ser	Leu	Asp	His	Ser	Ile	Trp	Phe	His	Lys	Pro	
79				170				175						180			
81	gtg	aag	gct	gac	gaa	tgg	atg	ctg	tat	gtg	atc	gag	agc	cca	tct	gcg	688
82	Val	Lys	Ala	Asp	Glu	Trp	Met	Leu	Tyr	Val	Ile	Glu	Ser	Pro	Ser	Ala	
83	185				190					195					200		
85	cac	ggt	ggt	cgc	ggt	ttc	gtc	acc	gga	cgc	atg	ttc	aac	agg	caa	gga	736
86	His	Gly	Gly	Arg	Gly	Phe	Val	Thr	Gly	Arg	Met	Phe	Asn	Arg	Gln	Gly	
87				205				210						215			
89	gag	ctt	atc	atg	tcg	ctg	acc	caa	gag	gca	ttg	att	cga	agg	gag	aag	784
90	Glu	Leu	Ile	Met	Ser	Leu	Thr	Gln	Glu	Ala	Leu	Ile	Arg	Arg	Glu	Lys	
91				220				225						230			
93	ccg	cga	gga	cca	aat	ccg	agg	ccg	aag	ctt	tgaggcacct	gacagcctct					834
94	Pro	Arg	Gly	Pro	Asn	Pro	Arg	Pro	Lys	Leu							
95				235				240									
97	gcagtgcact	gtagaggatc	ccaaaccgagc	tttgagaggc	gcaccatcct	ttcttctaat											894
99	ttggttttaga	tatttatgaa	ttcacaaaca	aaaatataga	atatacgca	gtataaaaaga											954
101	tctcaagtca	aacctaacat	ttttttcat	ttctccggat	gatttctatt	tgttttggtg											1014
103	tgtgtgtgg	tggagggta	ttggaagcgg	aagcggaggc	ggagggttg	atactttagg											1074
105	ctatttcctg	cagcttactt	tcattatacg	aacagtatat	atacatatatt	aaacttcaaa											1134
107	aaaaaaaaaa	aaaactcgag	ggggggcccg	gtacc													1169
110	<210>	SEQ ID NO:	2														
111	<211>	LENGTH:	242														
112	<212>	TYPE:	PRT														
113	<213>	ORGANISM:	Zea mays														
115	<400>	SEQUENCE:	2														
116	Met	Val	His	Ser	Leu	His	Ala	Ile	Phe	Leu	Val	Ala	Gly	Asp	Asn	Asn	
117	1				5				10					15			
119	Ile	Pro	Ile	Ile	Tyr	Gln	Val	His	Arg	Ala	Arg	Asp	Gly	Ser	Ser	Phe	
120					20				25					30			
122	Ala	Thr	Arg	Lys	Val	Glu	Ala	Lys	Gln	Lys	Gly	Leu	Val	Val	Phe	Thr	
123					35				40					45			
125	Leu	Ile	Ala	Ser	Phe	Gln	Lys	Glu	Glu	Val	Gly	Phe	Glu	His	Gln	Ala	
126					50				55					60			
128	Ala	Ile	Met	Pro	Asp	Val	Pro	Pro	Pro	Glu	Gln	Leu	Leu	Asn	Leu	Glu	
129					65				70					75			80
131	Glu	Ile	Arg	Glu	Arg	Arg	Leu	Thr	Asp	Pro	Arg	Phe	Pro	Ser	Gln	Tyr	
132					85				90					95			
134	Arg	Asn	Leu	Ala	Ala	Lys	Lys	Phe	Ile	Pro	Trp	Pro	Ile	Glu	Met		
135					100				105					110			
137	Arg	Phe	Cys	Glu	Gly	Ser	Ala	Ser	Gln	His	Lys	Pro	Ser	Leu	Asn	Tyr	
138					115				120					125			
140	Trp	Phe	Arg	Ala	Arg	Gly	Lys	Leu	Ser	Asp	Asp	Gln	Ala	Leu	His	Arg	

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/899,645

DATE: 07/24/2001  
TIME: 10:45:47

Input Set : A:\5718-114.app  
Output Set: N:\CRF3\07242001\I899645.raw

141 130 135 140  
143 Cys Val Val Ala Tyr Ala Ser Asp Leu Leu Phe Ser Gly Val Ser Leu  
144 145 150 155 160  
146 Asn Pro His Arg Glu Lys Gly Leu Lys Thr Tyr Cys Leu Ser Leu Asp  
147 165 170 175  
149 His Ser Ile Trp Phe His Lys Pro Val Lys Ala Asp Glu Trp Met Leu  
150 180 185 190  
152 Tyr Val Ile Glu Ser Pro Ser Ala His Gly Gly Arg Gly Phe Val Thr  
153 195 200 205  
155 Gly Arg Met Phe Asn Arg Gln Gly Glu Leu Ile Met Ser Leu Thr Gln  
156 210 215 220  
158 Glu Ala Leu Ile Arg Arg Glu Lys Pro Arg Gly Pro Asn Pro Arg Pro  
159 225 230 235 240  
161 Lys Leu

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/899,645

DATE: 07/24/2001

TIME: 10:45:48

Input Set : A:\5718-114.app

Output Set: N:\CRF3\07242001\I899645.raw

L:11 M:270 C: Current Application Number differs, Replaced Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date